

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

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TITLE DVB-ASI Signal Inverting Adapter and System

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

Please amend the above-identified patent application
as follows:

IN THE CLAIMS:

All claims are included herein as a convenience. The
claims that have been amended are marked as such. Please amend
the claims as follows.

1. (Unchanged) An apparatus comprising:

an inverted Digital Video Broadcast-Asynchronous
Serial Interface (DVB-ASI) signal; and

an inverting adapter adapted to invert the inverted
DVB-ASI signal.

2. (Unchanged) The apparatus of claim 1 wherein the
inverting adapter comprises a transformer coupled to the

inverted DVB-ASI signal, the transformer comprising primary and secondary sides.

3. (Unchanged) The apparatus of claim 1 wherein the
5 inverting adapter inverts the inverted DVB-ASI signal to produce
an adapted DVB-ASI signal, and wherein the adapted DVB-ASI
signal is coupled to a DVB-ASI device selected from the group
consisting essentially of a recorder, a monitor, a decoder, a
network, a transmitter, and a distribution amplifier.

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4. (Unchanged) The apparatus of claim 2 wherein each of
the primary and secondary sides has a polarity, wherein the
polarity of the secondary side is opposite to the polarity of
the primary side, and wherein the inverting adapter inverts the
15 inverted DVB-ASI signal to produce an adapted DVB-ASI signal.

5. (Unchanged) The apparatus of claim 4 wherein each of
the primary and secondary sides comprises an equivalent number
of windings.

20 6. (Amended) The apparatus of claim 5 wherein the
inverting adapter further comprises a body and input and output
[connectors] couplings, wherein the inverting adapter is
enclosed in the body, and wherein the body is electrically and
mechanically coupled to the input and output couplings.

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7. (Unchanged) The apparatus of claim 1 further
comprising a routing switcher, the routing switcher coupled to
an input DVB-ASI signal and producing an output DVB-ASI signal
and the inverted DVB-ASI signal.

8. (Unchanged) The apparatus of claim 7 further comprising a Serial Digital Video (SDV) source that produces an SDV signal, wherein the SDV signal is coupled to the routing
5 switcher, wherein the routing switcher produces an output SDV signal and an inverted SDV signal.

9. (Unchanged) The apparatus of claim 8 further comprising an encoder that couples to the output SDV signal and
10 that produces the input DVB-ASI signal.

10. (Unchanged) The apparatus of claim 7, wherein the routing switcher comprises a differential amplifier having an input coupled to the input DVB-ASI signal and having true and
15 complement outputs, wherein the true output is the output DVB-ASI signal and the complement output is the inverted DVB-ASI signal.

11. (Unchanged) The apparatus of claim 10, wherein the
20 routing switcher comprises the inverting adapter.

12. (Unchanged) The apparatus of claim 1 further comprising a distribution amplifier, the distribution amplifier coupled to an input DVB-ASI signal and producing an output DVB-
25 ASI signal and the inverted DVB-ASI signal.

13. (Unchanged) The apparatus of claim 12, wherein the distribution amplifier comprises the inverting adapter.

14. (Unchanged) A system comprising:

a Digital Video Broadcast-Asynchronous Serial Interface (DVB-ASI) encoder producing a DVB-ASI output signal;

5 an amplification device comprising true and complement outputs and an input coupled to the DVB-ASI signal, the true output comprising the DVB-ASI signal and the complement output comprising an inverted DVB-ASI signal; and

an inverting adapter comprising a transformer
10 comprising primary and secondary sides, wherein the primary side is coupled to the inverted DVB-ASI signal, wherein a polarity of the secondary side is opposite to a polarity of the primary side, and wherein each of the primary and secondary sides comprises an equivalent number of windings, whereby the
15 inverting adapter inverts the inverted DVB-ASI signal to create an adapted DVB-ASI signal.

15. (Unchanged) The system of claim 14, wherein the amplification device is selected from the group consisting
20 essentially of a routing switcher and a distribution amplifier.

16. (Unchanged) The system of claim 14, wherein the amplification device comprises the inverting adapter.

25 17. (Unchanged) The system of claim 14 wherein the adapted DVB-ASI signal is coupled to a DVB-ASI device selected from the group consisting essentially of a recorder, a monitor, a decoder, a network, a transmitter, and a distribution amplifier.

18. (Unchanged) The system of claim 14 wherein the amplification device comprises a routing switcher and wherein the system further comprises a Serial Digital Video (SDV) source
5 that produces a source SDV signal that is coupled to the routing switcher, wherein the routing switcher produces an SDV signal and an inverted SDV signal, and wherein the SDV signal is coupled to the DVB-ASI encoder.

10 19. (Unchanged) An inverting adapter for inverting Digital Video Broadcast-Asynchronous Serial Interface (DVB-ASI) signals, the inverting adapter comprising:

15 a transformer comprising primary and secondary sides, wherein each of the primary and secondary sides comprises an equivalent number of windings, wherein each of the primary and secondary sides comprise positive and negative connections, and wherein the negative connection of the primary side and the positive connection of the secondary side are grounded, whereby a polarity of the secondary side is opposite to a polarity of
20 the primary side;

a body that encases the transformer;

an input coupling adapted to accept a DVB-ASI signal and comprising an input shell and an input interconnection device, wherein the input shell is electrically and mechanically
25 coupled to the body and is electrically coupled to ground; and

an output coupling comprising an output shell and an output interconnection device, wherein the output shell is

electrically and mechanically coupled to the body and is electrically coupled to ground.

20. (Unchanged) The inverting adapter of claim 19 wherein
5 the input interconnection device comprises an input pin, wherein
the output interconnection device comprises an output
receptacle, wherein the input pin is coupled to the positive
connection of the primary side, and wherein the output
receptacle is coupled to the negative connection of the
10 secondary side.

21. (Amended) The inverting adapter of claim [0] 20
wherein the input coupling is a male British Naval Connector
(BNC) and wherein the output coupling is a female BNC.

22. (Unchanged) A digital video system that processes
Digital Video Broadcast-Asynchronous Serial Interface (DVB-ASI)
signals, wherein the improvement comprises:

an inverting adapter adapted to invert the inverted
20 DVB-ASI signal.

23. (Amended) The [apparatus] system of claim 22 wherein
the inverting adapter comprises a transformer coupled to the
inverted DVB-ASI signal, the transformer comprising primary and
25 secondary sides.

24. A method for processing Digital Video Broadcast-Asynchronous Serial Interface (DVB-ASI) signals, the method comprising the steps of:

generating a DVB-ASI signal and an inverted DVB-ASI
5 signal; and

inverting the inverted DVB-ASI signal to create an adapted DVB-ASI signal.

25. (Amended) The method of claim 24:

10 further comprising the steps of:

providing [a] an inverting adapter
comprising a transformer comprising primary and
secondary sides, wherein each of the primary and
secondary sides comprises an equivalent number of
15 windings, wherein each of the primary and secondary
sides comprise positive and negative connections, and
wherein the negative connection of the primary side
and the positive connection of the secondary side are
grounded, whereby a polarity of the secondary side is
opposite to a polarity of the primary side; and

20 coupling the inverted DVB-ASI signal to the
positive connection of the primary side; and

wherein the inverting adapter performs the step of
inverting the inverted DVB-ASI signal to create an adapted DVB-
25 ASI signal.

REMARKS

Applicant found minor errors in the claims and has corrected them.

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Respectfully submitted,

10 Dated: December 26, 2000 By: Kevin M. Mason
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